analog SCIENCE FACT AS SCIENCE FICTION



In this issue: THE GREAT GRAY PLAGUE by Raymond F. Jones



Pandemic

Generally,

human beings don't do

totally useless things consistently and widely,

So — maybe there is something to it —

BY J. F. BONE

We call it Thurston's Disease for two perfectly good reasons," Dr. Walter Kramer said. "He discovered it—and he was the first to die of it." The doctor fumbled fruitlessly through the pockets of his lab cost. "Now where the devil did I put those matches?"

"Are these what you're looking for?" the trim blonde in the gray seersucker uniform asked. She picked a small box of wooden safety matches from the littered lab table beside her and handed them to him.

"Ah," Kramer said. "Thanks. Things have a habit of getting lost around here."

"I can believe that," she said as she eyed the frenzied disorder around her. Her boss wasn't much better than his laboratory, she decided as she watched him strike a match against the side of the box and apply the flame to the charred bowl of his pipe. His long dark face became half obscured behind a cloud of bluish smoke as he puffed furiously. He looked like a lean untidy devil recently escaped from hell with his thick brows, green eyes and lank black hair highlighted intermittently by the leaping flame of the match. He certainly didn't look like a pathologist. She wondered if she was going to like working with him, and shook her head imperceptibly. Possibly, but not probably. It might be difficult being cooped up here with him day after day. Well, she could always quit if things got too tough. At least there

was that consolation. He draped his lean body across a



lab stool and leaned his elbows on its hock. There was a faint smile on his back as he eyed her quizzically. face as "Not just to this lab but to the Institute." she nodded. "I am, but how did

you know?" "Thurston's Disease. Everyone in the Institute knows that name for the plague, but few outsiders do." He pague, smiled sardonically. "Virus pneumon-

ic plague—that's a better term for public use. After all, what good does it do to advertise a doctor's stupid-

ity?" She eyed him curiously. "De mor-

wish she asked. He nodded. "That's about it. We may condemn our own, but we don't like laymen doing it. And besides, Thurston had good intentions. He

never dreamed this would happen." "The road to hell, so I hear, is

paved with good intentions." "Undoubtedly," Kramer said dryly. Incidentally, did you apply for this job or were you assigned?

"I applied." "Someone should have warned you I dislike clichés," he said. He paused a moment and eyed her curiously. "Just why did you apply?" he asked.

Why are you imprisoning yourself in a sealed laboratory which you won't leave as long as you work here. You know, of course, what the conditions are. Unless you resign or are carried out feet first you will remain here . . . have you considered what

such an imprisonment means?" I considered it," she said, "and it doesn't make any difference. I have

no ties outside and I thought I could help. I've had training, I was a nurse "Divocced?"

Widowed,"

Kramer nodded. There were pleaty of widows and widowers outside. Too many. But it wasn't much worse than in the Institute where, despite precautions, Thurston's disease took

"Did they tell you this place is called the suicide section?" he asked. She nodded. "Weren't you frightened?"

"Of dying? Hardly. Too many people are doing it nowadays," He grimaced, looking more saturate

than ever. "You have a point," he admitted, "but it isn't a good one. Young people should be afraid of dying

"You're not."

I'm not young. I'm thirty-five, and besides, this is my business. I've been looking at death for eleven years. I'm immune."

"I haven't your experience," she admitted, "but I have your attitude," "What's your name?" Kramer said. "Barton, Mary Barton."

"Hm-m-m. Well, Mary-I can't turn you down. I need you. But I could wish you had taken some other job."

"I'll survive." He looked at her with faint admiration in his greenish eyes. Perhaps you will," he said. "All right. As to your duties-you will be my assistant, which means you'll be a dishwasher, laboratory technician, secretary, junior pathologist, and coffee maker. I'll help you with all the job score the last case. I make loop scoffee." Kramer grimech, his teeth a white fakh across the drivens of his face. "You'll be on call recursof-tout hose a day, underpadi, overwooked, and in constant danger and we like." Thereos with the captured to handle the jobs of three poople unless I can get more beligness and I doubt that I can. People stary away from here in droves.

There's no future in it."

Mary smiled wryly. "Literally or figuratively?" she asked.

He chuckled. "You have a nice sense of graveyard humor," he said. "It'll help. But don't get careless. Assistants are hard to find."

sistants are hard to find."

She shook her head. "I won't.
While I'm nor afraid of dying I don't
want to do it. And I have no illusions
about the danger. I was briefed
quite thoroughly."

"They wanted you to work up-

She nodded

I suppose they need help, too. Thusson's Disease has riddled free medical profession. Jost don't feet that this place can be a death crap. On minute and prove he alt. An extra that every prefusion, but with a visual confession of the confession o

"So I am," Kramer said, "but I don't take chances. My ptedectors, my secretary, my lab technician, my secretary, my lab technician, and indicated all died of Thurston's Disease." It, eyed her grimly. "Still want the job? he asked.

"I lost a husband and a three-yee old son," Mary said with equal grimness. "That's why I'm here. I want to destroy the thing that killed my fam ily. I want to do something. I wan to be useful."

He nodded. "I think you can be," he said quietly.

"Mind if I smoke?" she asked. "I need some defense against that pine

of yours."

No—go ahead. Out here it's all right, but not in the security section."

Many took a package of cigarettes

from her pocket, lit one and blew a cloud of gray smoke to mingle with the blue haze from Kramer's pipe. "Comfortable?" Kramer asked.

"Comfortable?" Kramer asked. She nodded. He looked at his wrist watch. "We

have half as bour before the rull rule cultures are ready for examination. That should be enough to rell you about the modern Pasters and his meaner virus. Since your deries will pointably another Themson's Disease, pointably another Themson's Disease, it's He settled hismelf impedition, it's He settled hismelf impedition, it's He settled hismelf impedition, were not talking in a dry schoolmasterish voice. "Also Themson was an immunologist at Midwestern University Medical School Like most men in the teaching trade, he also had a research project. It is worked on." by the great names in be one like Jenner, Pasteur, and The result was that he pushed 100 careful. He wanted

He's well known now," Mary said. n le famous." within the profession." Peie, Kramer said dryly, "He and working with gamma radiations as microorganisms, trying to proas mutated strain of Micrococcus pagener that would have enhanced

sogenic properties." Wit a minute, doctor. It's been for years since I was active in nursing Translation, please."

Kamer chuckled. "He was trying s nake a vaccine out of a common efectious organism. You may know e bener as Staphylococcus. As you hew, it's a pus former that's made logital life more dangerous than it sould be because it develops resistsee to antibiotics. What Thurston vaned to do was to produce a strain that would stimulate resistance in the priest without causing diseasexmething that would help patients protect themselves rather than rely upon doubtfully effective antibiotics."

That wasn't a bad idea." There was nothing wrong with it. The only trouble was that he wound up with something else entirely. He was like the man who wanted to nake a plastic suitable for children's by and ended up with a new explothe You see, what Thurston didn't talize was that his cultures were conbeingted. He'd secured them from be University Clinic and had, so he bought, isolated them. But somehow

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he'd brought a virus slong-probable one of the orphan group or possibly a phage."

"Orphan?" "Yes-one that was not a normal

inhabitant of human tissues. At any rate there was a virus-and he mutated it rather than the bacteria. Acrually, it was simple enough, relatively speaking, since a virus is infinitely simpler in structure than a bacterium, and hence much easier to modify with ionizing radiation. So he didn't produce an antigen-he produced a disease instead. Naturally, he contacted it, and during the period between his infection and death he managed to infect the entire hospital. Before anyone realized what they were dealing with, the disease jumped from the hospital to the col-

lege, and from the college to the city, and from the city to-" "Yes, I know that part of it. It's all over the world now-killing prople by the millions."

Wall," Kramer said, "at least it's solved the population explosion." He blew a cloud of blue smoke in Mary's direction. "And it did make Thurston famous. His name won't be quickly forgotten."

She coughed. "I doubt if it ever will be," she said, "but it won't be remembered the way he intended."

He looked at her suspiciously. "That cough-" "No, it's not Thurston's Discuse.

It's that pipe. It's rancid." "It helps me think," Kramer said. "You could try cigarettes—or candy," she suggested.

"I'd rather smoke a pipe." "There's cancer of the lip and

tongue, she said helpfully.

"Don't quote Ochsner. I don't dagree with him. And besides, you a smoke cigarettes, which are infinitely worse."

"Only four or five a day. I don't saturate my system with nicotine." "In another generation," Kramer

observed, "you'd have run through the streets of the city brandishing an ax smashing saloons. You're a lineal descendent of Carrie Nation." He puffed quietly until his head was surrounded by a nimbus of smoke. "Scop rying to reform me," he added. "You haven't been here long enough."

"Not even God could do that, according to the reports I've heard," she said.

He laughed. "I suppose my reputation gets around."

"It does. You're an opinionsted slave driver, a bully, an intellectual

syzana, and the beir pathologist in this center."

The last part of that sentence makes up for undistreting beneary of the control of the control of the theory we realised the situation we went to work to correct it. Institutes like this were established everywhere the dissues appeared for the sole purpose of examining, treating, and experimenting with the hope of finding a cute. This section exists for the the huming cases, and the primates in the experimental laboratories, It is come they to find our if anything the copy appearing try shows a copy appearing the copy appearing the copy appearing the copy and the co

"And none of them have worked?"
"No—but that densit mean the work's been useless. The research has saved others thousands of man house chasting false leads. In this business negative results are almost as important as positive ones. We may never discover the solution, but out work will keep others from making the same mittakes."

ments in this Institute alone.

"I never thought of it that way." "People seldom do. But if you realize that this is international, that every worker on Thurston's Disease has a niche to fill, the picture will be clearer. We're doing our part inside the plan. Others are, too. And there are thousands of labs involved. Somewhere, someone will find the answer. It probably won't be us, but we'll help get the problem solved as quickly as possible. That's the important thing. It's the biggest challenge the race has ever faced-and the most important. It's a question of survival." Kramer's voice was sober. We have to solve this. If Thurston's Disease isn't checked, the human nor will become extinct. As a result, for the first time in history all manfer the working together, and the Communists All? You mean the Communists

age noof means that the state of the state o

sunding in the middle of the clut-

tered laboratory.

"Now what am I supposed to do hor?" Mary wondered aloud. "Clean up he says. Find our where things up he says. Find our where things are, he says. Get acquainted with the place, he says. I could speed a month doing that." She looked at the intered bench, the wall cabinets while the country of the same that the

ages to work in here is beyond me. I suppose that I'd better start somewhere—perhaps I can get these bottles in some sort of order first." She highed and moved toward the wall othiness. "Oh well," she mused, I saked for this."

Didn't you hear that buzzer?"

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"Was that for me?" Mary said, looking up from a pile of bottles and glassware she was sorting. "Partly. It means they've sent us

another post-mortem from upstairs."
"What is it?"

"What is it?"
"I don't know—man or monkey, it makes no difference. Whatever it is, it's Thurston's Disease. Come along.

You might as well see whit goes on in our ultra modern necropsy soite." "I'd like to." She put down the bottle, she was holding and followed

him to a green door at the rear of the laboratory.
"Inside," Kramer said, "you will find a small antercoom, a shower, and described to the state of the state of

a dressing room. Serip, shower, and pur on a clean set of lab coveralls and slippers which you will find in the dressing room. You'll find surgical masks' in the wall cabinet beside the lockers. Go through the door layound the dressing room and wair for me there. I'll give you ten minutes."

"We do this both ways," Kraner said as he joined her in the narrow hall beyond the dressing room. "We'll reverse the process going out."

"You certainly carry security to a maximum," she said through the mask that covered the lower part of

"You haven't seen anything ye," he said as he opiened a door in the hall. "Noe the positive air pressure, he said. "Theoretically nothing can get in here except what we bring with us. And we try not to bring anything." He stood saids to show her the glasseed in cubicle overhanging a the glasseed in cubicle overhanging a bare room dominated by a polished seed pore-mortem table that glittered in the latash floorescent lighting. Above the table a number of joined rods and clamps hung from the cities. A low metal door and series of racks containing instruments of slassware were set into the opposite walt together with the gaping circutar orifice of an open another.

We work by remote control, just like they do at the AEC. See those handlers?" He pointed to the control console set into a small stainless steel table standing beside the sheet of glass at the far end of the cubicle. "They're connected to those gadgets up there." He indicated the jointed arms hanging over the autopsy table in the room beyond. "I could perform a major operation from here and never touch the patient. Using these I can do anything I could in person with the difference that there's a quarter inch of glass between me and my work. I have controls that let me use magnifiers, and even do microdissection, if necessary." "Where's the cadaver?" Mary

asked.
"Across the room, behind that

door," he said, waving at the low, sliding metal partition behind the table. "It's been prepped, decontaminated and ready to go."

"What happens when you're through?"

"Watch." Dr. Kramer pressed a button on the console in front of him. A section of flooring slid asside and the table tipped. "The cadaver slides off that table and through that hole.

ed Down below is a highly efficient creed matorium."

Mary shivered. "Neat and effor-

tive, she said shakily.

"After that the whole room;

sprayed with germicide and sterilized with live steam. The instruments go into the autoclave, and thirty minutes later we're ready for another Postmortern."

We use the handlers to put speci, mest into those ignit, he said, pein, ing to a row of capped glass just all susored airs on a wall rack behind the table. "After they're capped, the just go onto that carrier beside to table. From here they pass through a decontamisation chamber and imdecontamisation chamber and imthe temperature of the control of the table. The control is also the concal and histological techniques. For inheal table and mounted specimes called this and mounted specimes in the control of the control of the control of the marine process to the custide list Theoretically this above is true

against anything."

"It seems to be," Mary said, obviously impressed. Twe never seen anything so elegant."

Neither did I until Thurston's Dis-

ease became a problem." Kramer shrugged and sat down behind the controls. "Watch, now," he said as he pressed a button. "Let's see what's on deck—man or monkey. Want as make a bet? I'll give you two to one it's a monkey."

She shook her head.

The low door slid aside and a sted carriage emerged into the necropal room bearing the mude body of a man. The copying design ded the barts indicated was given of the dreb barts indicated with the post-morter to the floorescens in the ceiling as Kramer, using the handlers, rodder it on the post-morter tables of charged it in place on its batt of the place on its batt of place of place of place on its batt of place of

He moved a handler and picked up a heavy scalped from the instrument rule. There's a certain advantage to this," he said as he moved the handler dedicately. These gadgets give a tremendous mechanical advantage. I can cur right through small bones and cartilage without using a saw;

"How nice," Mary said. "I expect you enjoy yourself."

T couldn't ask for better equipment, he replied noncommittally. With defit motion of the handler he drew the scaled down accept the



chest and along the coast larargins in the classic inverted "Y" incision. "Well take a look at the thorax first," "Well take a look at the thorax first," he said, as he used the handlers to pry open the range and expose the thoraxic man. Al. "Though so for the property". He pointed with a small their that cratical a pobe. "Look at those lungs." He swung a viewer into place 20 Mary could goe bester "Look at those abscesses and necro-like its Thurston's Discoss, all rights,

with secondary bacterial invasion."
The grayish solidified masses of tissue looked nothing like the normal pink appearance of bealthy lungs. Studded with yellowish spherical abscesses they lay swollen and engorged within the gaping cavity of the chest. "You know the tathbonenesis of

Thurston's Disease?" Kramer asked.

Mary shook her head, her face yellowish-white in the glare of the fluorescenes.

"It begins with a bronchial cough," Kramer said. 'The virus attacks the bronchioles first, destroys them, and passes into the deeper tissues of the lungs. As with most virus diseases there is a transitory leukopenia-a drop in the total number of white blood cells-and a rise in temperature of about two or three degrees. As the virus attacks the alveolar structures, the remperature rises and the white blood cell count becomes elevated. The lungs become inflamed and painful. There is a considerable quantity of lymphoid exudate and picural effusion. Secondary invaders and pus-forming bacteria follow the viral destruction of the lung tissue

and form abscesses. Breathing becomes progressively more difficult as more lung tissue is destroyed. Hepatization and necrosis inactivate more lung tissue as the bacteria get in their dirty work, and finally the patient sufficates."

"But what if the bacteria are controlled by antibiotics?"

"Then the virus does the job to

products attletrasis followed by progressive nectosis of lung tissue with gradual liquefaction of the parenchyma. It's slower, but juck as fazil. This fellow was lucky. He apparently stayed out of here until he was almost dead. Probably he's hind the disease for about a week. If 'he'd have comes in early, we could have kept him alive for maybe a month. The end, however, would have been

"It's a terrible thing," Mary sale faintly.
"You'll get used to it. We get one

the same."

or two every day." He shrugged. There's nothing here that's interesting, be said as he released, the champs and titled the table. For what seemed to Mary an interminable time, the cadaves chang to the political seed. Then shruphy it said of the shrings sufficient can disapprated through the square hole in the floot. "We'll clean upon," Kramer said as he placed the instruments in the sunction, can be compared to the contract of the contract of

From jets embedded in the walls a fine spray filled the room with for "Germicide," Kramer said, "Latel, there'll be steam. That's all for now. Do you want to go?"

Mary nodded

"If you feel a little rocky there's a bottle of Scotch in my desk. I'll split a drink with you when we get

out of here." "Thanks," Mary said. "I think I

could use one.

Borron! Where is the MacNeal stain!" Kramer's voice came from the lab. "I left it on the sink and it's gone!"

'It's with the other blood stains and reagents. Second drawer from the right in the big cabinet. There's a label on the drawer." Mary called from the office. 'If you can wait until I finish filing these papers, I'll come in and help you."

"I wish you would," Kramer's voice was faintly exasperated. "Ever since you've organized my lab I can't find anything."

"You just have a disorderly mind," Mary said, as she slipped the last paper into its proper folder and closed the file. "I'll be with you in a minute." "I don't dare lose you," Kramer

said as Mary came into the lab. "You've made yourself indispensable. It'd take me six months to undo what you've done in one. Not that I mind," he amended, "but I was used to things the way they were." He looked around the orderly laboratory with a mixture of pride and annoyance. "Things are so near they're almost painful."

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"You look more like a pathologist should," Mary said as she deftly removed the tray of blood slides from in front of him and began to run the

stains. It's my job to keep you free to think."

"Whose brilliant idea is that? Yours?" "No-the Director's. He told me what my duties were when I came

here. And I think he's right. You should be using your brain rather. than fooling around with blood stains and sectioning tissues."

"But I like to do things like that," Kramer procested. "It's relaxing."

"What right have you to relax," Mary said. 'Outside, people are dying by the thousands and you want to relax. Have you looked at the larest mortality reports?"

"No-" You should. The WHO estimates that nearly two billion people have died since Thurston's Disease first appeared in epidemic proportions. That's two out of three. And more are dying every day. Yet you want

to relax "I know," Kramer said, "but what can we do about it. We're working but we're getting no results."

"You might use that brain of yours," Mary said birrerly. "You're supposed to be a scientist. You have facts. Can't you put them together?" I don't know." He shrugged, Twe been working on this problem longer than you think. I come down

here at night-"I know. I clean up after you."

"I haven't gotten anywhere. Sure, 77 we can isolate the virus. It grows inicely on monkey lung cells. But that doesn't help. The thing has no apparent antigenicity. It parasitizes, but it doesn't rigget any immune reaction. We can kill it, but the strength of the germicide is too great for living rissue to tolerate."

"Some people seem to be immune."
"Sure they do—but why?"

"Don't ask me. I'm not the scienrier."

"Here are the fact. The dissons and ages. So "Here are the fact. The dissons actuacks people of all races and ages. So far every one who is attracked dies. Adult Europeans and Americans appear to be somewhat more resistant-pear to be defined as the sound of the sound

"It's awful!" Mary said.

"It's worse than that. It's extinction. Without kids the race will die out." Kramer rubbed his forehead. "Have you any ideas?"

"Children have less resistance," Kramer replied. "An adult gets exposed to a number of diseases to which he builds an immunity. Possibly one of these has a cross immunity against Thurston's virus."

"Then why don't you work on that line?" Mary asked.

"Just what do you think I've been doing? That idea was put out months ago, and everyone has been taking a crack at it. There are twenty-four laboratories working full time on that facet and God knows how many more working part time like we are. I've screened a dozen common disease, including the six varieties of the common cold virus. All, incidentally, were negative."

"Well-are you going to keep on

with it?"

"I have to." Kramer rubbed his eyes. It won't let me sleep. I'm sure we're on the right track. Something an adult gets gives him resistance or immunity." He shrugged. "Tell you what. You run those bloods out and I'll go take another look at the data." He reached into his lab coat and produced a pipe. "I'll give it another try."

"Sometimes I wish you'd read without puffing on that thing," Mary said. "Your delicate nose will be the death of me yet—" Kramer said.

"It's my lungs I'm worried about,"
Mary said. "They'l probably look like
two pieces of well-tanned leather if I
associate with you for another year."

"Stop complaining. You've gotten ne to weat clean lab coats. Be satisfied with a limited victory," Kramet said absently, his eyes starting unseeingly at a row of reagent bottles on the beach. Abruptly he nodded. "Faarstic," he muttered, "Dut it's worth a check." He left the room, slamming the door behind him in his hurry.

That man!" Mary murmured. "He'd drive a saint out of his mind. If I wasn't so fond of him I'd quit. If

anyone told me I'd fall in love with a nathologist, I'd have said they were crazy. I wish-" Whatever the wish met it wasn't uttered. Mary gasped and coughed rackingly. Carefully she moved back from the bench, opened a drawer and found a thermometer. She put it in her mouth. Then she drew a drop of blood from her forefinger and filled a red and white cell pipette, and made a smear of the remainder.

She was interrupted by another spasm of coughing, but she waited until the paroxysm passed and went methodically back to her self-appointed task. She had done this many times before. It was routine procedure to check on anything that might be Thurston's Disease. A cold, a sore throat, a slight difficulty in breathing -all demanded the diagnostic check. It was as much a habit as breathing. This was probably the result of that cold she'd gotten last week, but there was nothing like being sure. Now let's see-temperature 99.5 degrees, red cell count 41/2 million. White cell count . . . oh! 2500 . . . leukopenia! The differential showed a virtual absence of polymorphs, lymphocytes and monocytes. The whole slide didn't have two hundred. Eosinophils and basophils way up-ewenty and fifteen per cent respectively-a relative rise rather than an absolute one

-leukopenia, no doubt about it. She shrugged. There wasn't much question. She had Thurston's Disease. It was the beginning stages, the harsh cough, the slight temperature, the leukopenia. Pretty soon her white cell count would begin to rise, but it would rise too late. In fact, it was already too late. It's funny, she thought. I'm going to die, but it doesn't frighten me. In fact, the only thing that bothers me is that poor Walter is going to have a terrible time finding things. But I can't put this place the

way it was. I couldn't hope to. . She shook her head, slid gingerly off the lab stool and went to the hall door. She'd better check in at the clinic, she thought. There was bed space in the hospital now. Plenty of it. That hadn't been true a few months ago but the only ones who were dying now were the newborn and an occasional adult like herself. The epidemic had died our not because of lack of virulence but because of lack of victims. The city outside, one of the first affected, now had less than forty per cent of its people left alive. It was a hollow shell of its former self. People walked its streets and went through the motions of life. But they were not really alive. The vital criteria were as necessary for a race as for an individual. Growth, reproduction, irritability, metabolism-Mary smiled wryly. Whoever had authored that hackneved mnemonic that life was a "grim" proposition never knew how

right he was, particularly when one of The race couldn't reproduce. That was the true horror of Thurston's Disease-not how it killed, but who it killed. No children played in the parks and playgrounds. The schools were empty. No babies were pushed in carriages or taken on rours through

the criteria was missing

the apermarkets in shopping cars. No advertisements of motherhood, or children, or children's things were in the newaparts or magazines. They were forbidded subjects—too danger-ood, forbid point of the new part of the control of t

It was odd, she thought, how wrong the prophets were. When Thurston's Disease broke into the news there were frightened predictions of the end of civilization. But they had not materialized. There were no mass insurrections, no rioting, no organized violence. Individual excesses, vesbut nothing of a group nature. What little panic there was at the beginning disappeared once people realized that there was no place to go. And a grim passivity had settled upon the survivors. Civilization did not break down. It endured. The mechanics remained intact. People had to do something even if it was only routine counterfeit of normal lifethe stiff upper lip in the face of disaster.

It would have been far more odd, Mary decided, if mankind had given way to panie. Humanity had survived other, plagues nearly as terrible as this—and racial memory is long. The same grim patience of the pass was bere in the present. Man would somehow survive, and civilization go on.

It was inconceivable that manking would become extinct. The whole vast resources and pooled intelligence of surviving humanity were focused upon Thurston's Disease. And the disease would yield. Humanity waited with childlike confidence for the miracle that would save it. And the miracle would happen. Mary knew in with a calm certainty as she stood in the cross corridor at the end of the hall, looking down the thirty yards of tile that separated her from the elevator that would carry her up to the clinic and oblivion. It might be too late for her, but not for the race. Nature had tried unaided to destroy man before-and had failed. And her unholy alliance with man's genius would

She wondered as the walled down the corridor if the others who had sickned and died felt as the did. She whether Waller Fanner would be at imperional as he was with the others when he performed the post-morem when he performed the post-morem the post-morem than the same a persty thing. But she could meet it with redgament if nor with courage, with redgament if nor with courage to have any mensing. She much the felt with regions of a finger on the elevators as the placed a finger on the elevators.

also fail.

tor button

Poor Walter—she sighed. Sometimes it was harder to be among the living. It was good that she didn't let him know how she felt. She had sensed a change in him recordly. His friendly impersonality had become merky friendly. It could, with a littlemonragament, have developed into spending else. But it wouldn't not See sighed again. Hingh, And his livbre an ower of strength and his livter gallows humor and furnished a regilious humor and furnished a furnished humor and a see and and a furnished him him has went and the seed of the regilious and and the seed of the regilious and part of the regilious and the seed and the seed of the regilious and the half created. Why couldn't that devaor humy?

Mary! Where are you going?" Kramer's voice was in her ears, and his hand was on her shoulder.

"Don't touch me!"
"Why not?" His voice was curious-

ly different. Younger, excited.
"I have Thurston's Disease," she said.
He didn't let go. "Are you sure?"

"The presumptive tests were positive."
"Initial stages?"
She nodded. "I had the first coughing attack a few minutes ago."

He pulled her away from the elevator door that suddenly slid open. "You were going to that death trap upstairs," he said.

"Where else can I go?"
"With me," he said. "I think I can

help you."

"How? Have you found a cure for

"I think so. At least it's a better possibility than the things they're using up there." His voice was urgent.

little "And to think I might never have d into seen it if you hadn't put me on the now. track."

"Are you sure you're right?"

"Not absolutely, but the facts fit. The theory's good."

"Then I'm going to the clinic. I

can't risk infecting you. I'm a carrier now. I can kill you, and you're too important to die."

"You don't know how wrong you are," Kramer said.

"Let go of me!"

"No-you're coming back!"

She rwisted in his grasp. "Let me

go!" she sobbed and broke into a fit of coughing worse then before. "What, I was trying to say," Dr. Kramer said into the silence that followed, "is that if you have Thurston's

Disease, you've been a carrier for at least two weeks. If I am going to get it, your going away can't help. And if I'm not, I'm not."

"Do you come willingly or shall I

"Do you come willingly or shall I knock you unconscious and drag you back?" Kramer asked. She looked at his face. It was grim-

mer than she had ever seen it before. Numbly she let him lead her back to the laboratory.

But, Walter—I can't. That's sixty in the past ten hours!" she protested. "Take it," he said grimly, "then take another. And inhale. Deeply."

"But they make me dizzy."
"Better dizzy than dead. And, by

the way—how's your chest?"
"Better. There's no pain now. But the cough is worse." "It should be." "Why?""

"You've never smoked enough to get a cigarette cough," he said. She shook her head dizzily. "You're

so right," she said. "And that's what nearly killed you,"

he finished triumphantly. "Are you sure?"

"I'm certain. Naturally, I can't prove it-yet. But that's just a matter of time. Your response just about clinches it. Take a look at the records. Who gets this disease? Youngsters-with nearly one bundred per cent morbidity and one hundred per cent mortality. Adults-less than fifry per cent morbidity-and again one hundred per cent mortality. What makes the other fifty per cent immune? Your crack about leather lungs started me thinking-so I fed the data cards into the computer and keyed them for smoking versus incidence. And I found that not one heavy smoker had died of Thurston's Disease. Light smokers and nonsmokers-plenty of them-but not one single nicotine addict. And there were over ten thousand randomized cards in that spot check. And there's the exact reverse of that classic experiment the lung cancer boys used to sell their case. Among certain religious groups which prohibit smoking there was nearly one hundred per cent moreality of all ages!

"And so I thought since the disease was just starting in you, perhaps I could stop it if I loaded you with tobacco smoke. And it works!" "You're not certain yet," Mary said.

"I might not have had the disease." You had the symptoms. there's virus in your sputum."

"Yes, but-" "But, nothing! I've passed the world

-and the boys in the other labs figure

that there's merit in it. We're going to call it Barton's Therapy in your honor. It's going to cause a minor social revolution. A lot of laws are going to have to be rewritten. I can see where it's going to be illegal for children not to smoke. Funny, isn't it? Twe contacted the maternity ward.

They have three babies still alive upstairs. We get all the newborn in this town, or didn't you know. Funny, isn't it, how we still try to reproduce. They're rigging a smoke chamber for the kids. The head nurse is screaming like a wounded tiger, but she'll feel better with live babies to care for. The only had thing I can see is that it may cut down on her chain smoking. She's been worried a lot about infant mortality.

"And speaking of nurseries-that reminds me. I wanted to ask you something." "Yes?"

"Will you marry me? I've wanted to ask you before, but I didn't dare. Now I think you owe me something -your life. And I'd like to take care of it from now on."

"Of course I will," Mary said. "And I have reasons, too. If I marry you, you

can't possibly do that silly thing you plan. "What thing?"

"Naming the treatment Barton's It'll have to be Kramer's."